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Houghton Mifflin 4

Mathematics

Problem Solving Activities



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Houghton Mifflin **4** Mathematics Problem Solving Activities

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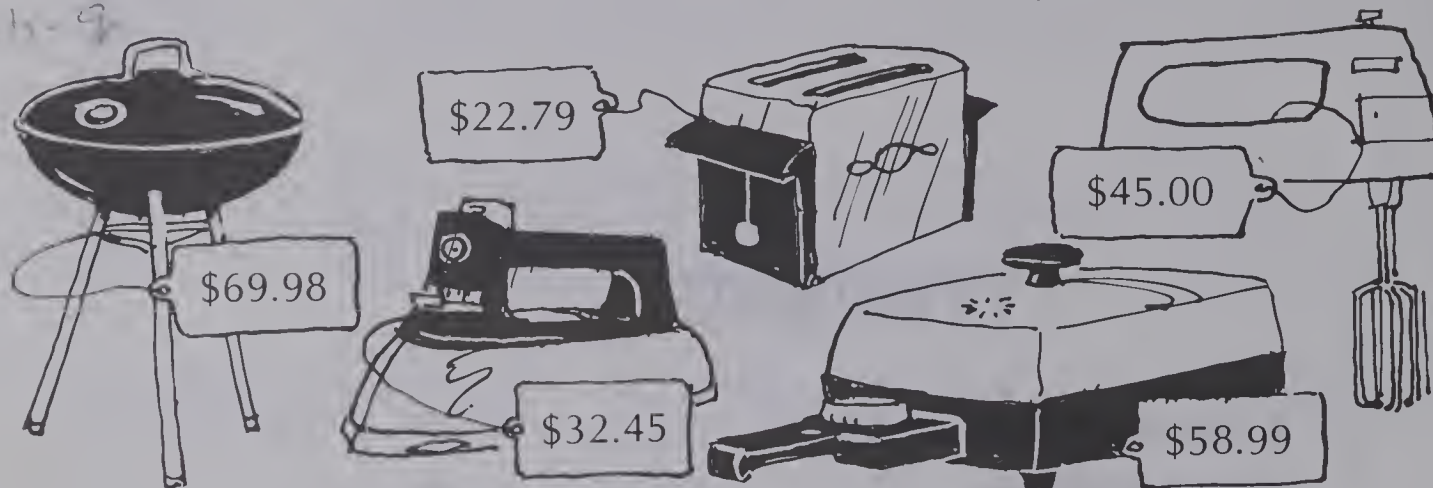
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UNIT 1 Locating Information

Use the information in the pictures to solve the problems.



1. Which costs more, the toaster or the iron?
2. Which costs less, the hand mixer or the frying pan?
3. Which is the most expensive item?
4. Which is the least expensive item?
5. Which items cost more than \$40.00?
6. Which item costs the closest to \$60.00?

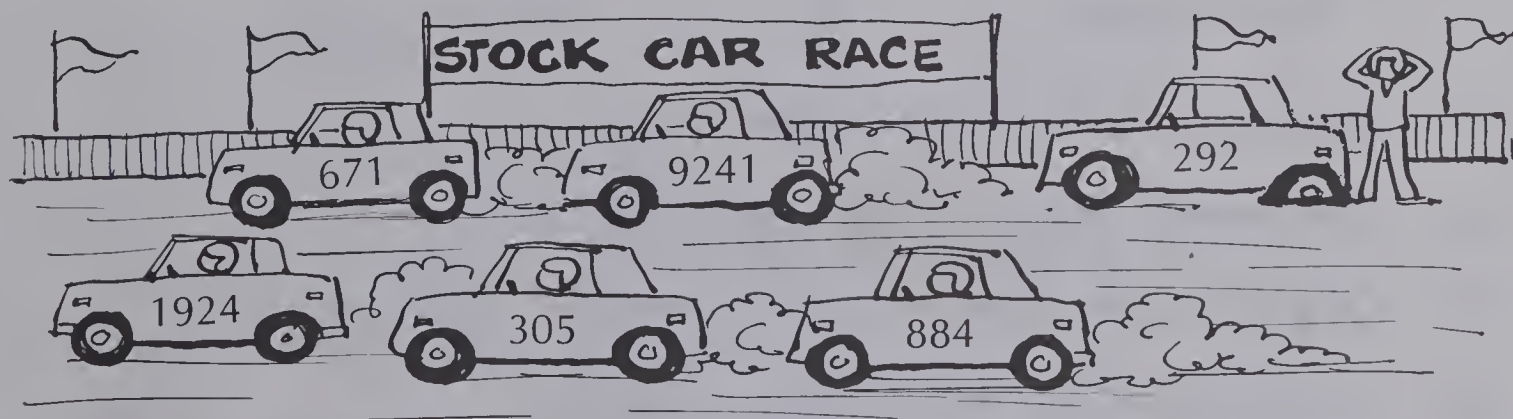
Highest Point In Each Province



7. Which province has the highest elevation?
8. Which province has the lowest elevation?
9. Which provinces have the same high point?
10. Which province's highest elevation is the closest to 700 m?



11. Which boat has the largest number?
12. Which boats have the same digit in the thousands place?
13. Which boat is now in last place in the race?
14. Which boats have a 0 in the tens place?
15. Which boat should round the mark first?
16. In which position is boat number two thousand eight hundred three?



17. What is the number of the car with the flat tire?
18. In what position is car number six hundred seventy-one?
19. Which car has the same digits in the hundreds and tens place?
20. Which cars have the same number in the hundreds place?

A table gives information in an orderly way.

BASKETBALL SCORECARD

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Trojans	28	21	27	32	108
Dolphins	34	17	32	29	112

1. In which quarter did the Trojans score more than 30?
 2. In which quarter did the Dolphins score less than 20?
 3. Which team scored more in the third quarter?
 4. Who won the game?
-

MAGICIAN'S EQUIPMENT FOR 1 YEAR

ITEMS	NUMBER	TOTAL COST
Rabbits	45	\$67.50
Top Hats	5	\$22.50
Magic Wands	12	\$99.88
Scarves	36	\$36.00
Decks of Cards	24	\$48.24

5. How much do 12 magic wands cost?
6. How many rabbits can you get for \$67.50?
7. Of which item does a magician need the fewest in 1 year?
8. Which item costs the closest to \$40.00?
9. Which costs more, the rabbits or the decks of cards?
10. Which item costs less than \$30.00?

Put the information into a table. Answer the questions.

Jamie, Lisa, Bobby, and their fathers formed a softball team. Bobby is 140 cm tall and plays the catcher. Jamie's father, who is 35 years old, is the pitcher. He is 190 cm tall. Lisa is 12 years old, 152 cm tall, and she plays first base. Bobby and Jamie are both 10 years old. Bobby's father, who is 32 years old and 187 cm tall, plays shortstop. Lisa's father is 182 cm tall and plays second base. Jamie is 145 cm tall and plays third base. Lisa's father is 4 years older than Bobby's.

1.

Names	Positions	Ages	Heights
Jamie	?	?	?
Lisa	?	?	?
Bobby	?	?	?
Jamie's Father	?	? -	?
Lisa's Father	?	?	?
Bobby's Father	?	? -	?

- Who is the tallest child?
- Who is the youngest father?
- How old is the person who plays second base?
- How old is the person who plays third base?
- Who is younger, the pitcher or the catcher?
- Who is shorter, Jamie or the person who plays first base?
- Who is taller, the shortstop or the pitcher?
- What position does the oldest person play?

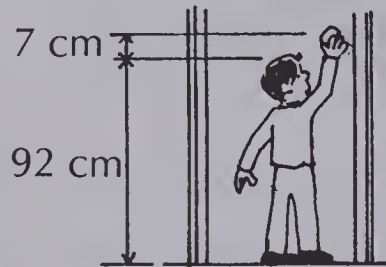
UNIT 2 Using Pictures

Problem:

Harley is 92 cm tall. He has to reach 7 cm to touch the doorknob. How far is the doorknob from the floor?

Solution:

Draw a picture to help you solve the problem.



$$7 + 92 = 99$$

The doorknob is 99 cm from the floor.

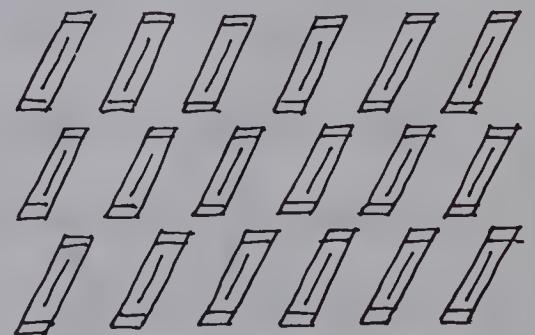
Copy the picture. Use it to help answer the question.

1. A carpenter had 12 nails and 8 screws. She used 8 nails and 5 screws to build a cabinet.

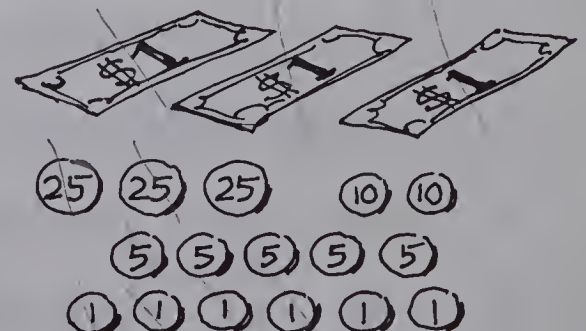
How many nails and screws does she have left?



2. Robert had 18 pieces of gum. He chewed 5 pieces himself. He gave 4 pieces to Leonard. He gave 3 pieces to Anthony. How many pieces of gum does Robert have left?



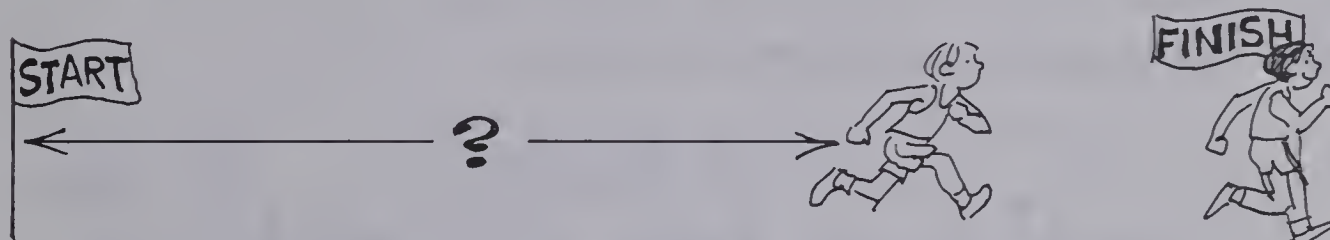
3. Sara was cleaning out her purse. She found 3 dollars, 3 quarters, 2 dimes, 5 nickels, and 6 pennies. She owed Jason \$3.59. Which coins did Sara have left after she paid Jason?



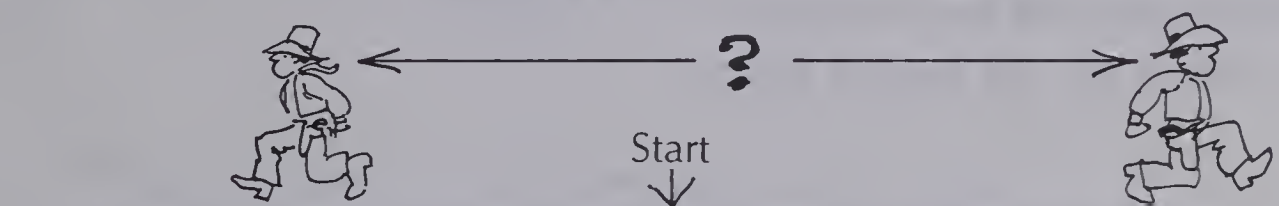
4. There were 4 motorcycles waiting to race. Each motorcycle was 3 m long and there were 2 m spaces between each 2 motorcycles. How long was the line?



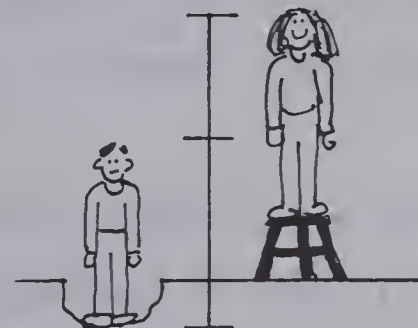
5. Rick and David had a 50 m race. When David crossed the finish line, Rick was 8 m behind. How far has Rick run so far?



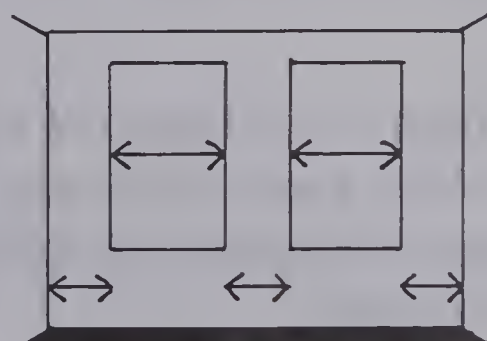
6. Two cowboys started back to back and each walked forward. One cowboy walked 59 paces forward. The other one walked 49 paces forward. How far apart are they now?



7. Jan is 143 cm tall.
Her brother is 119 cm tall.
If Jan stood on a 32 cm stool and her brother stood next to her in a 14 cm hole, how much taller would Jan be than her brother?



8. There are two windows on a wall in Eric's bedroom. Each window is 120 cm wide. There is a 60 cm section of wall on each side of both windows. How wide is the wall?



Draw a picture to help answer each question.

1. Tom's moustache is 7 cm on one side but only 6 cm on the other. There is a 1 cm space under Tom's nose where the moustache starts. How far is it from one tip of Tom's moustache to the other?
2. Carole participated in a bicycle marathon. The course was in the shape of a square. Each side of the square was 12 km. How long was the marathon course?



3. There are 12 houses on Baker Street. Every fourth one has a porch. How many do not have a porch?
4. Jassy was lining up her shoes. She had 6 shoes. Each shoe was 23 cm long and she left a 5 cm space between the shoes. How long was Jassy's line of shoes?
5. There are 20 books on the shelf. Every fifth one is a mystery book. How many mystery books are on the shelf?
6. There was a display of 4 pictures side by side in the art gallery. Each picture was 98 cm wide and there was a 30 cm space between the pictures. How wide was the display altogether?

- ✓ 7. There were 15 dogs in the pet show.
Every third one was a collie.
How many collies were there in the pet show?
8. Casey was playing on the stairs. He started on the first step, went up 5 steps, down 2 steps, up 7 steps, and down 3 steps. What step is Casey on now?
9. Gladys had a triangle-shaped garden. Each side was 8 m.
She planted one flower every 2 m around the edge of the garden. How many flowers did Gladys plant?



10. Tammy and Cheryl were having a 100 m race.
Cheryl gave Tammy a 10 m head start.
If they both ran at exactly the same speed, where was Cheryl when Tammy finished the race?
11. Peggy's square table is 300 cm on each side.
If people sit every 50 cm, how many people can sit around Peggy's table? (No one sits at a corner.)
12. The counter is 119 cm from the floor.
The cupboard is 34 cm above the counter.
The cupboard is 75 cm high. How far is it from the floor to the top of the cupboard?

UNIT 3 Number Patterns

To solve some problems, you can look for a number pattern.

Problem:

What is the pattern rule? What are the missing numbers?

68	78	73	83	78	88	?	?	?	?
----	----	----	----	----	----	---	---	---	---

Solution:

	+10		-5		+10		-5		+10		-5		+10		-5		+10	
68		78		73		83		78		88		83		93		88		98

The rule is: Add 10, subtract 5.

Write the missing numbers in the pattern. Write the rule.

1.

85	78	71	64	?	?	43	?	?	22
----	----	----	----	---	---	----	---	---	----

The rule is: ?

2.

53	?	61	?	?	73	?	?	85	?
----	---	----	---	---	----	---	---	----	---

The rule is: ?

3.

39	41	40	42	41	?	?	?	?	45
----	----	----	----	----	---	---	---	---	----

The rule is: ?

4.

72	79	70	77	68	?	?	73	?	?
----	----	----	----	----	---	---	----	---	---

The rule is: ?

5.

10	20	40	70	110	?	?	?	370	?
----	----	----	----	-----	---	---	---	-----	---

The rule is: ?

Write the numbers that are missing in each pattern.

1.

5	10	7	12	?	?	?	?	?	?
---	----	---	----	---	---	---	---	---	---

2.

21	22	24	27	?	36	?	?	?	66
----	----	----	----	---	----	---	---	---	----

3.

100	89	78	?	?	?	34	?	12	?
-----	----	----	---	---	---	----	---	----	---

4.

260	268	263	271	?	?	?	?	?	280
-----	-----	-----	-----	---	---	---	---	---	-----

5.

340	339	337	334	?	?	?	312	?	?
-----	-----	-----	-----	---	---	---	-----	---	---

6.

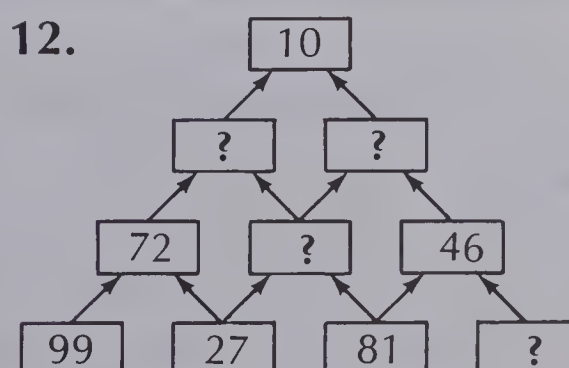
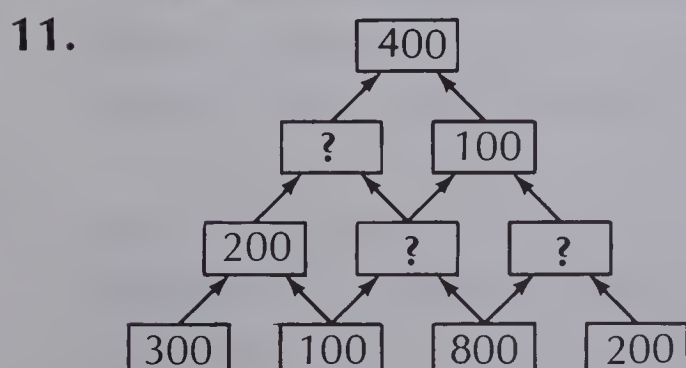
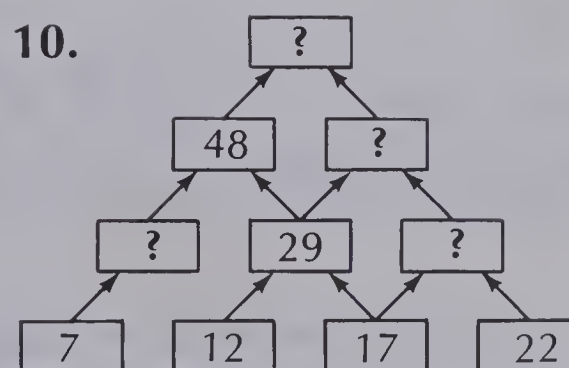
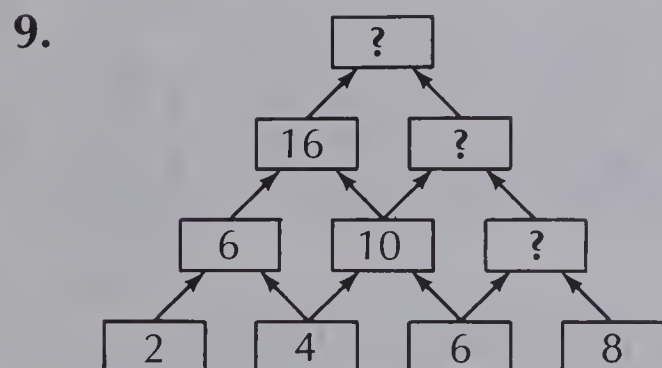
777	778	776	779	?	?	?	?	773	?
-----	-----	-----	-----	---	---	---	---	-----	---

7.

510	520	500	530	?	?	?	550	?	?
-----	-----	-----	-----	---	---	---	-----	---	---

8.

930	932	936	944	960	?	?	1184	?	1952
-----	-----	-----	-----	-----	---	---	------	---	------



Using a pattern chart makes it easier to solve some problems.

Problem:

Jerry makes \$1.25 an hour for babysitting. How much money would he make for 5 hours of babysitting?

Solution:

Fill in a chart using the pattern "Add \$1.25."

Hours	1	2	3	4	5
Money	\$1.25	\$2.50	\$3.75	\$5.00	\$6.25

After babysitting for 5 hours, Jerry makes \$6.25.

Use a pattern chart to solve these problems.

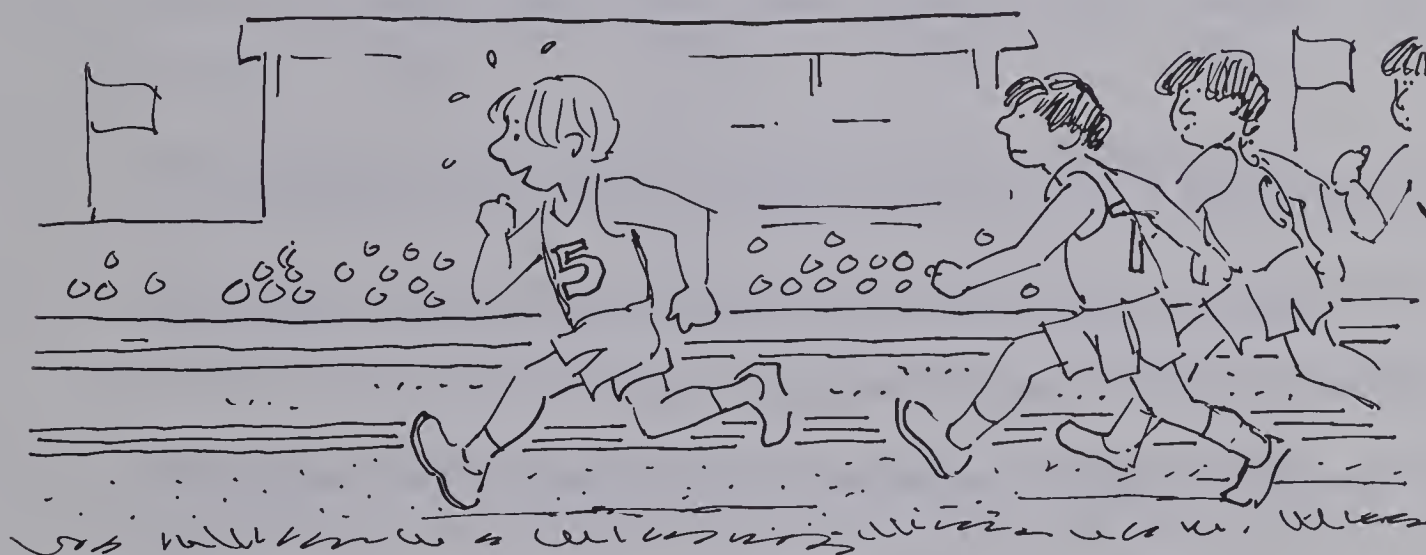
1. Mrs. Nelson put up wallpaper in the guest bedroom. She used 2 sheets of wallpaper for every 3 m of wall. How many sheets of wallpaper did Mrs. Nelson use after 24 m of wall?

Metres of Wall	3	6	9	?	?	?	?	?
Sheets of Wallpaper	2	4	6	?	?	?	?	?

2. Penny took six spoonfuls of cough syrup each day for five days. How many spoonfuls had she taken after the five days?

Days	1	2	?	?	?
Spoonfuls	6	?	?	?	?

3. Jason was placing markers around the track. He put the first marker at 100 m. Then he put a marker every 50 m after that. How many markers would he need to reach 400 m?
4. Rick was running a 10 km race. It took him 5 minutes to run the first kilometre. He slowed down after that and it took him 1 minute more to run each kilometre than the one before it. How long did it take Rick to run the race?



5. Julie was making fruit punch for her whole class. She started with 3 L of grapefruit juice. Then she added 2 L each of several different kinds of fruit juices. At the end she had 17 L of punch. How many different kinds of fruit juices did Julie use?
6. Patti saved pennies for 10 days. The first day she saved 1¢. Every day after that she saved twice as much as the day before. How much money did Patti save altogether?
7. Ron had \$26.92 at the beginning of the week. He spent 10¢ the first day, 20¢ the second day, 30¢ the third day, and so on. How much money did Ron have left after 7 days?

UNIT 4 Choosing the Example

Read each problem carefully. Write the letter of the example which solves the problem. Then write the solution.

In an orchard, there were 232 peach trees and 344 apple trees. A rainstorm damaged 48 of the peach trees and 75 of the apple trees.

a.
$$\begin{array}{r} 232 \\ -48 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 344 \\ -75 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 48 \\ +75 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 232 \\ +344 \\ \hline \end{array}$$

1. How many fruit trees were there in the orchard altogether?
2. How many peach trees were not damaged by the rainstorm?
3. How many trees were damaged in all?
4. How many apple trees were not damaged by the rainstorm?

A company makes clothes out of denim material. Last year they made 4163 pairs of pants, 6202 jackets, and 5474 shirts. Exactly 3098 pairs of pants had pockets.

a.
$$\begin{array}{r} 6202 \\ +5474 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 6202 \\ -5474 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 4163 \\ -3098 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 4163 \\ +5474 \\ \hline \end{array}$$

5. How many shirts and pairs of pants did the company make?
6. How many pairs of pants did not have pockets?
7. How many more jackets than shirts did the company make?
8. How many jackets and shirts did the company make altogether?

During the month of June this year, 3010 people visited Grand Crater Park. Last year 3564 people visited the park in June and 2881 in July. This July, the ranger expects 150 more people will visit the park than last July.

a.	$\begin{array}{r} 2881 \\ + 150 \\ \hline \end{array}$	b.	$\begin{array}{r} 3564 \\ - 3010 \\ \hline \end{array}$	c.	$\begin{array}{r} 3564 \\ + 2881 \\ \hline \end{array}$	d.	$\begin{array}{r} 3564 \\ - 2881 \\ \hline \end{array}$
----	--	----	---	----	---	----	---

9. How many people does the ranger expect to visit the park this July?
 10. How many people visited the park last year in June and July?
 11. How many more people visited the park last year in June than this year in June?
 12. How many more people visited the park last year in June than July?
-
13. Tim's grandmother is 68 years old. His grandfather is 75 years old. Who is older?
 - a. $68 > 75$
 - b. $75 > 68$
 14. It is 420 km from Vancouver to Kamloops. It is 370 km from Vancouver to Penticton. Which city is closer to Vancouver?
 - a. $370 < 420$
 - b. $420 < 370$
 15. Marsha has saved \$43.20. Jan has saved \$39.98. Who has saved more?
 - a. $\$43.20 > \39.98
 - b. $\$39.98 > \43.20

Jamie was deciding between going skiing or skin diving for the holidays. It costs \$8.50 per day to rent skis and \$6.25 per day to rent ski boots. Fins for skin diving cost \$7.95 to rent for one day and it costs \$4.95 to rent a diving mask for a day.

a.
$$\begin{array}{r} \$8.50 \\ + \$6.25 \\ \hline \end{array}$$

b.
$$\begin{array}{r} \$7.95 \\ - \$6.25 \\ \hline \end{array}$$

c.
$$\begin{array}{r} \$7.95 \\ + \$4.95 \\ \hline \end{array}$$

d.
$$\begin{array}{r} \$8.50 \\ - \$6.25 \\ \hline \end{array}$$

1. How much would it cost altogether to rent skin-diving equipment for one day?
2. How much in all would it cost to rent ski equipment for one day?
3. How much more does it cost to rent skis than ski boots?
4. How much more does it cost to rent fins than ski boots?

An airline stewardess flew 8392 km in March and 7950 km in April. She flew as a passenger for 901 km in March and 1250 km in April.

a.
$$\begin{array}{r} 7950 \\ + 1250 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 8392 \\ + 7950 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 1250 \\ + 901 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 1250 \\ - 901 \\ \hline \end{array}$$

5. As a stewardess, how far did she travel in March and April?
6. As a passenger, how far did she travel in March and April?
7. How much farther did she fly as a passenger in April than in March?
8. For how many kilometres did she fly altogether in April?



A stock boy was filling the shelves for a grocery store. He set out 250 mL and 100 mL ketchup bottles. He also set out 500 mL and 355 mL vinegar bottles.

a.
$$\begin{array}{r} 500 \\ -250 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 500 \\ +355 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 355 \\ -100 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 500 \\ -355 \\ \hline \end{array}$$

9. How much more does a large vinegar bottle hold than a small vinegar bottle?
10. How much more does a large vinegar bottle hold than a large ketchup bottle?
11. How much more does a small vinegar bottle hold than a small ketchup bottle?
12. How much do a small and large vinegar bottle hold together?
-
13. Mrs. Green is 170 cm tall. Her daughter is 178 cm tall. Who is taller?
- a. $170 > 178$ b. $178 > 170$
14. The air distance from Toronto to London is 5672 km. It is 6303 km from Toronto to Paris. Which European city is closer to Toronto by air?
- a. $6303 < 5672$ b. $6303 > 5672$
15. Peter received \$200.00 for his graduation. Would a ski outfit for \$195.99 or for \$211.10 be the best for him to buy with the money?
- a. $\$195.99 < \200.00 b. $\$200.00 > \211.10

UNIT 5 Extra Information

Some problems tell you more than you need to know.

Problem:

There are 923 pages in Carol's book. There are 876 pages in Sam's book. Carol has already read 508 pages. How many pages does Carol have left to read?

Solution:

923	pages in Carol's book
<u>-508</u>	pages already read
415	

Extra information:

Sam's book has 876 pages.

Carol has 415 pages left to read.

Find the information you need and solve the problem.

1. Two pans of cookies were baked. There were 4 raisins on each cookie. There were 8 cookies on each pan. How many raisins were on each pan?
2. There were 9 cars in the parade. There were 3 signs on each car. There were 2 flags on each sign. How many signs were there altogether?
3. There are 7 designs. There are 6 stars in each design. Each star has 5 points. How many stars are there altogether?

4. Wendy played tennis for 45 minutes.
Then she drove to the golf course 20 km away.
She played golf for 90 minutes. For how long did Wendy play games?

5. There were 2538 fans at the soccer game.
846 fans cheered for the visiting team.
1975 of the fans were children.
How many of the fans were adults?



6. It took Dixie 35 minutes to clean her bedroom.
She cleaned the kitchen in 20 minutes. Then she rested for
15 minutes before she cleaned the bathroom. How long has
Dixie been cleaning so far?

7. Jill spent \$6.89 to buy wieners.
She spent \$2.25 to buy buns.
She spent \$4.10 to buy juice.
How much did it cost Jill to make hotdogs?

8. In Richmond last year, 3924 cars were sold. The year before,
4015 cars were sold. If 1667 cars have already been sold
this year, how many more need to be sold to equal last year's
sales?

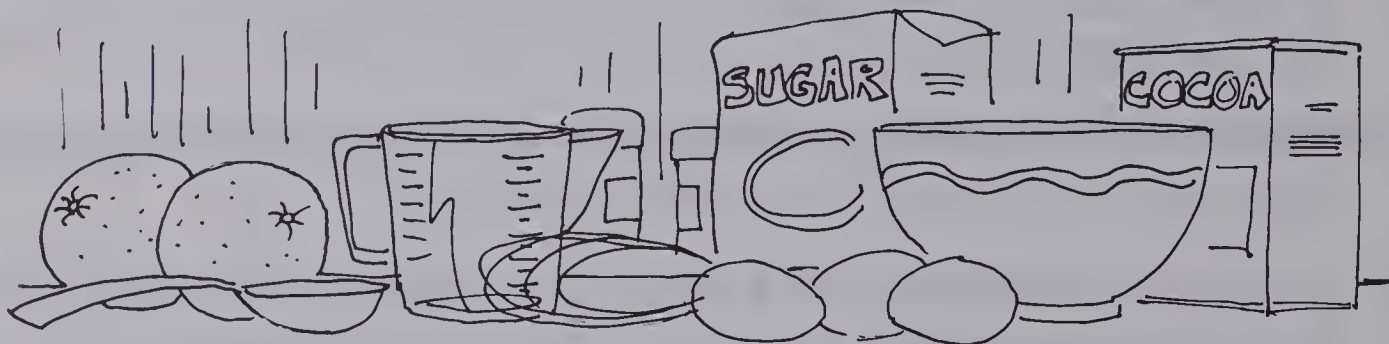
9. In a parade, the marching band had 9 rows with 4 players in
each row. There were 5 rows of policemen riding horses with
4 horses in each row. How many players were in the band?



Read the story. Find the facts needed to solve the problem.

Mr. Slater washed and dried 3 loads of laundry. Each load took 10 minutes to wash and 12 minutes to dry. Next, he took a half hour to wash his car and 45 minutes to polish it. After a one hour nap on a lawn chair, Mr. Slater mowed the lawn for 40 minutes.

1. How long did it take Mr. Slater to wash his clothes?
2. How much time did Mr. Slater spend washing and polishing his car?
3. How long did it take Mr. Slater to dry his clothes?



Andrea baked spice cookies using 2 eggs and 70 g of orange peel. The recipe called for 200 g of granulated sugar and 7 g each of ground cloves and cinnamon. Andrea also used cocoa in the cookie batter. She used 3 times more cocoa than she did cinnamon. About 75 g of nuts and 150 g of icing sugar was also needed.

4. How much cocoa did Andrea use?
5. How much sugar in all was used in the recipe?
6. How much more nuts than orange peel was used in the recipe?

Darrell's Dream

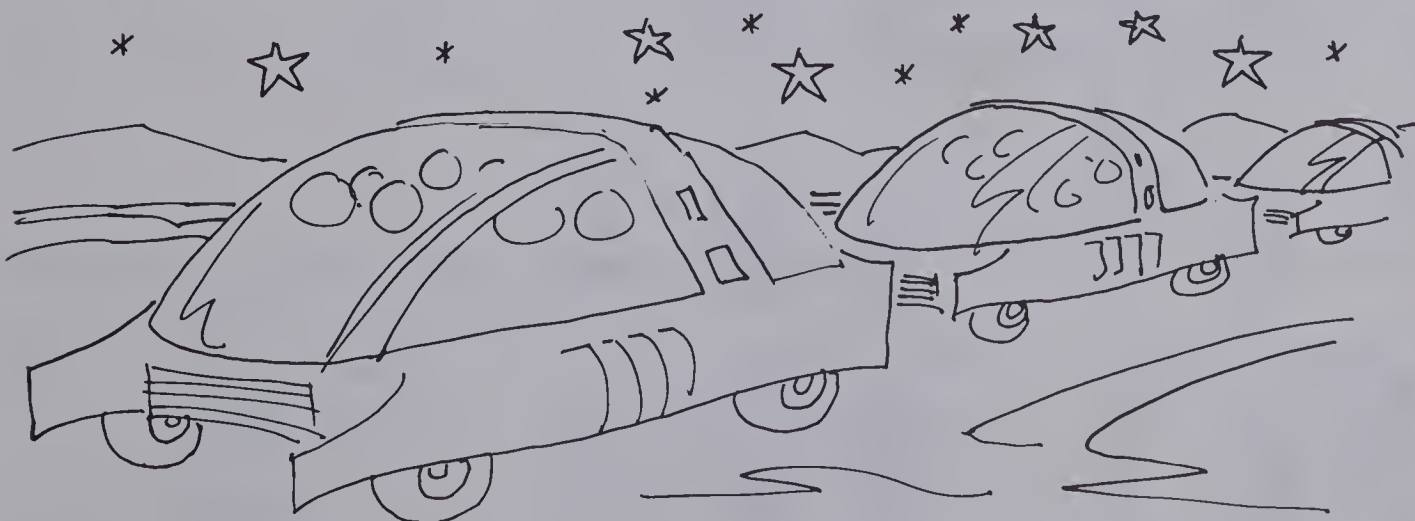
One night Darrell had an exciting dream. He dreamt that he went to Mars and saw how the Martians live.

Darrell made friends with 5 Martian boys in his dream. Each of the boys took him to his home which was a cave. Each cave had 7 large rooms. Each room had 2 telephones and 3 video screens.

Darrell dreamt that the Martians had a parade of 50 space buggies. Each space buggy had 4 seats with 3 Martians sitting on a seat. One of his Martian friends got out of a space buggy to let Darrell have a ride.

Darrell wished his Martian dream had lasted longer, but his dog jumped on his bed and woke him up.

7. How many Martians sat on the same space buggy seat with Darrell?
8. How many telephones were there in all in a cave?
9. How many Martians rode in each space buggy?
10. How many screens were there in all in a cave?



UNIT 6 Guessing and Testing

Sometimes the easiest way to solve a problem is to guess an answer and test to see if it is correct. If it is not correct, a better guess is made.

Problem:

Place the 10 digits 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 in the 10 boxes so that each equation makes sense. Use each digit only once.

$$\square \times \square = 6$$

$$\square + 7 = 15$$

$$12 - \square = \square$$

$$10 \times \square = 10$$

$$\square \times \square = 24$$

$$\square + 9 = \square$$

Solution:

$$\boxed{2} \times \boxed{3} = 6$$

$$\boxed{8} + 7 = 15$$

$$12 - \boxed{5} = \boxed{7}$$

$$10 \times \boxed{1} = 10$$

$$\boxed{4} \times \boxed{6} = 24$$

$$\boxed{0} + 9 = \boxed{9}$$

Complete the equations. Use each digit from 0 to 9 only once.

1. $1 + \boxed{?} = \boxed{?}$

$$\boxed{?} \times 4 = 20$$

$$16 - \boxed{?} = \boxed{?}$$

$$\boxed{?} + \boxed{?} = 9$$

$$32 \div \boxed{?} = \boxed{?}$$

$$14 - \boxed{?} = 12$$

2. $\boxed{?} + 1 = \boxed{?}$

$$\boxed{?} \times \boxed{?} = 12$$

$$28 \div \boxed{?} = 4$$

$$15 \div 3 = \boxed{?}$$

$$11 - \boxed{?} = \boxed{?}$$

$$\boxed{?} \times \boxed{?} = 48$$

3. $\boxed{?} \div 9 = 0$

$$\boxed{?} \times \boxed{?} = 18$$

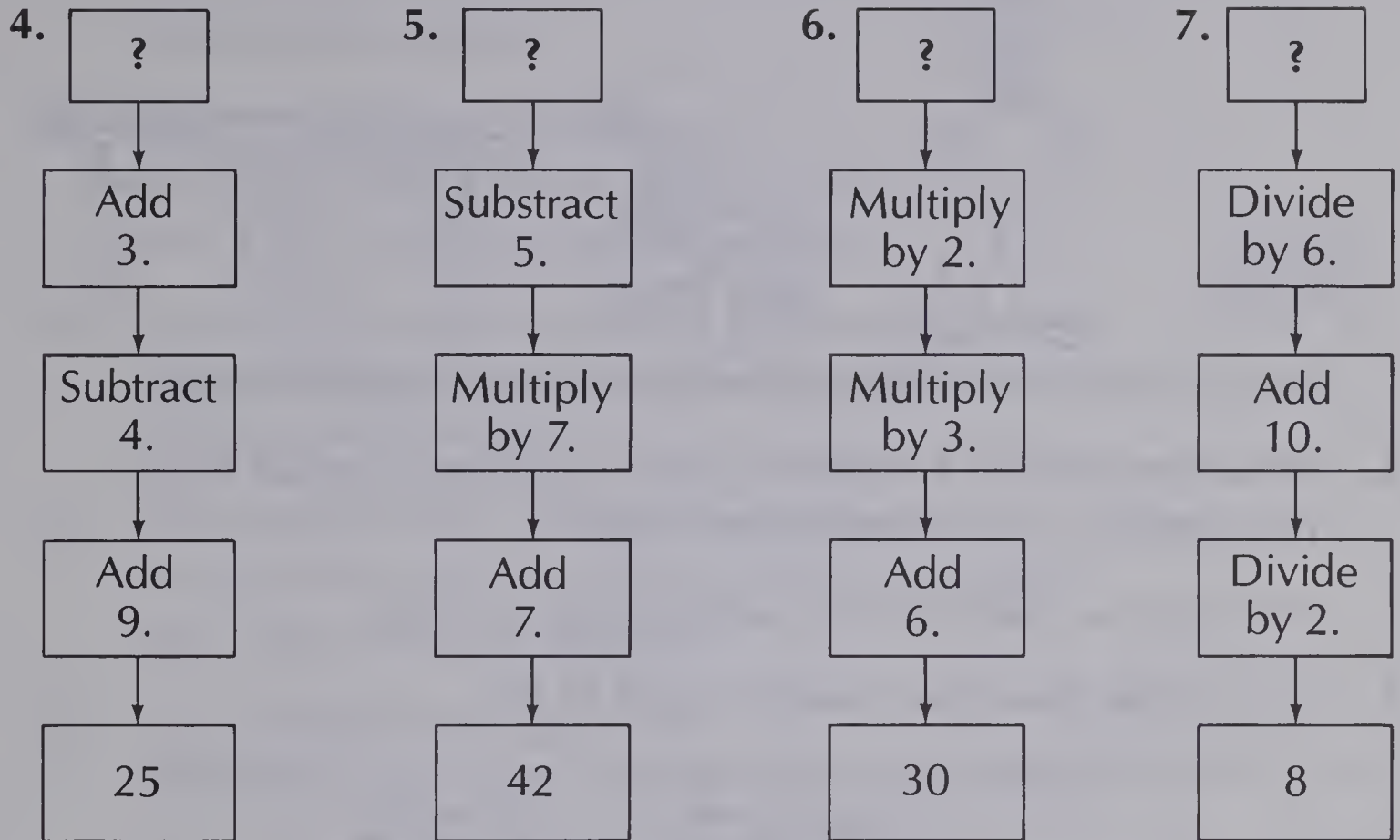
$$\boxed{?} \times \boxed{?} = 42$$

$$28 - 27 = \boxed{?}$$

$$\boxed{?} + \boxed{?} = \boxed{?}$$

$$40 \div 10 = \boxed{?}$$

Find the starting numbers.



8. Find two numbers whose sum is 70 and whose difference is 12.
9. Find two numbers whose sum is 95 and whose difference is 31.
10. Find two numbers whose sum is 111 and whose difference is 43.
11. Find two numbers whose sum is 134 and whose difference is 44.

Find the digit for which each letter stands.

12.

$$\begin{array}{r} 625 \\ -1AB \\ \hline AB8 \end{array}$$

A=?
B=?

13.

$$\begin{array}{r} 3AA9 \\ +C05C \\ \hline BB23 \end{array}$$

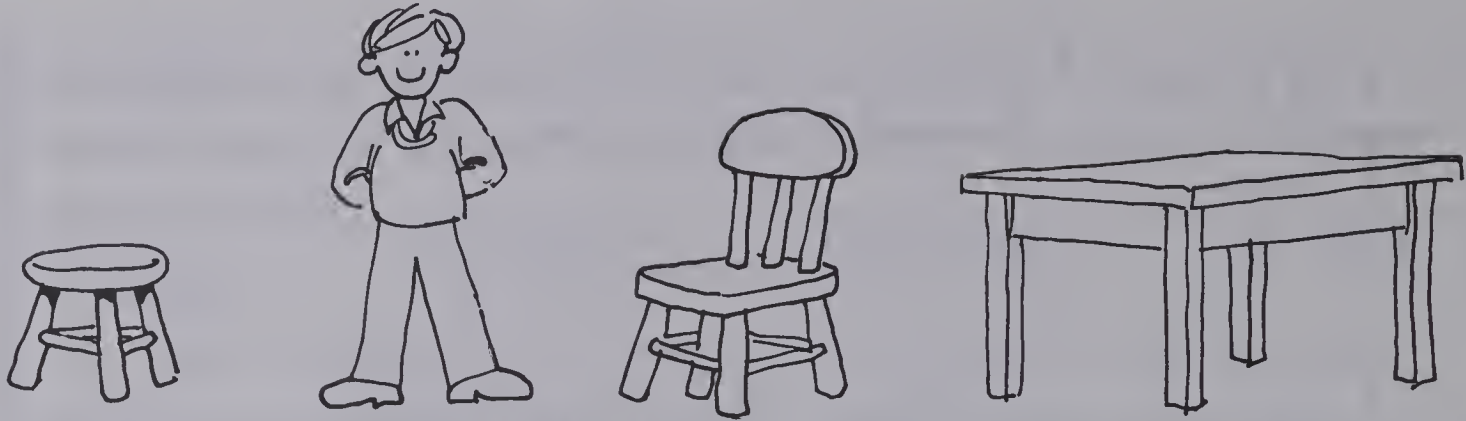
A=?
B=?
C=?

14.

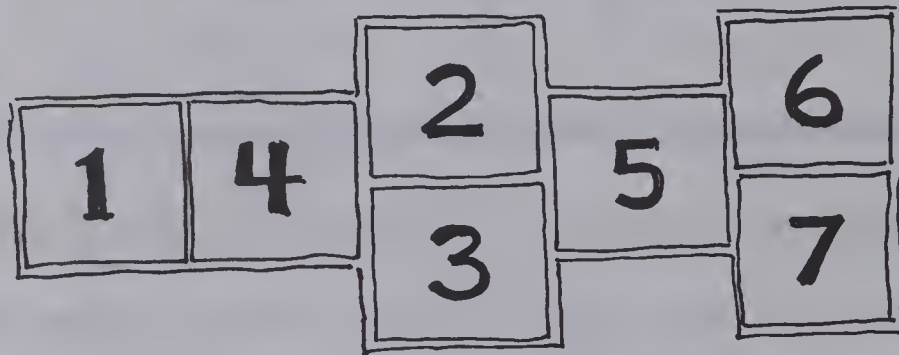
$$\begin{array}{r} 66AB \\ -A4C8 \\ \hline B174 \end{array}$$

A=?
B=?
C=?

Each of these things has legs.



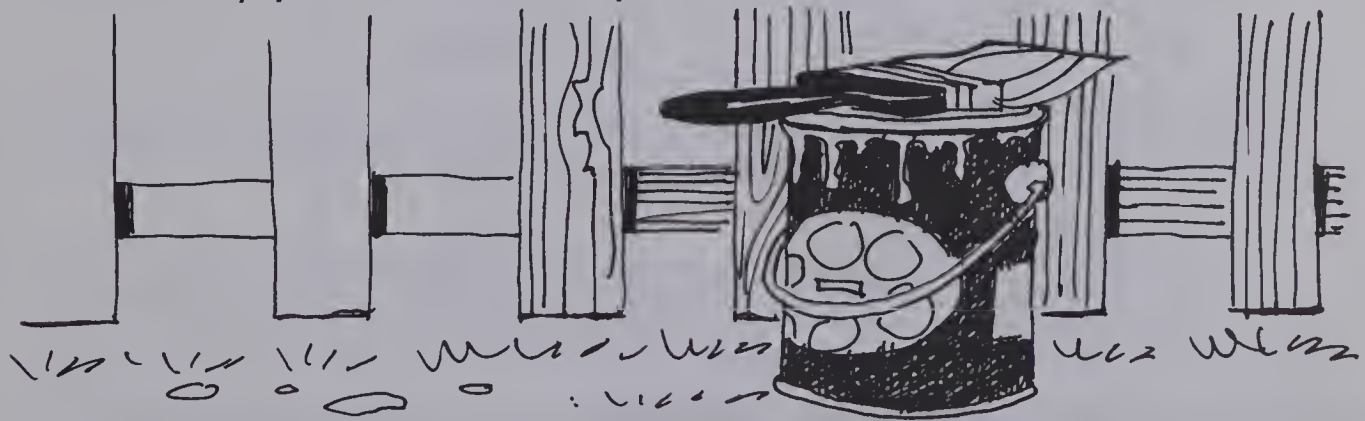
1. How many chairs and stools would you need to get 21 legs?
 2. How many people and tables would you need to get 28 legs if you needed 5 more people than tables?
 3. Use twice as many stools as tables to get 30 legs.
 4. Use 2 more stools than people to get 41 legs.
-



Hop on three different squares for each score.

5. What are the ways you can score 11?
6. What are the ways you can score 13?
7. What are the ways you can score 15?
8. What are the ways you can score 16?

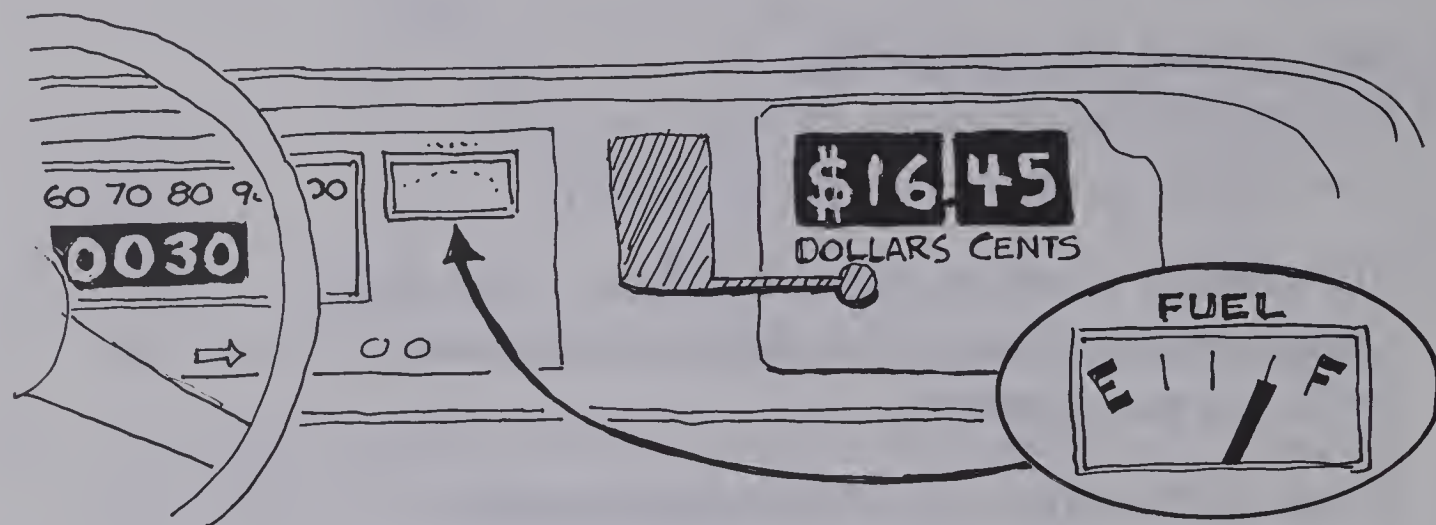
9. The sum of two numbers is 27.
One number is 3 more than the other number.
What are the numbers?
10. Sean played 28 card games.
He played 6 fewer games of Snap than Fish.
How many games of Fish did Sean play?
11. The product of two numbers is between 30 and 40.
One number is 5 more than the other number.
What are the numbers?
12. Frank set the table with 18 forks and spoons.
He set twice as many spoons as forks on the table.
How many forks did Frank set?
13. Susan baked 36 cookies.
She baked 8 more jam cookies than sugar cookies.
How many sugar cookies did Susan bake?
14. Ron painted 48 pickets of the fence.
He painted 3 times more pickets before lunch than after lunch.
How many pickets did Ron paint before lunch?



15. Jean ate some marshmallows for a contest.
Fred ate 4 times as many.
Altogether they ate 35 marshmallows.
How many marshmallows did Jean eat?

UNIT 7 Review Problems

Use what you have learned to solve the following problems.



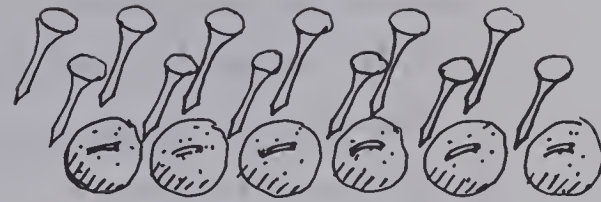
1. How much fuel has been used so far?
 2. How many kilometres has the taxi gone?
 3. What is the fare?
 4. What is the change from \$20.00?
-

FOOD CALORIES

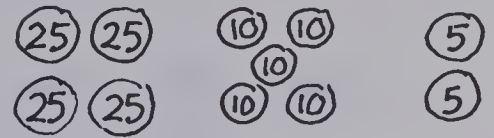
Kind of Food	Calories
Egg (1 boiled)	75
French Fries (20 pieces)	310
Frankfurter (1)	125
Orange Juice (250 mL)	110

5. Which food has the fewest calories?
6. Which food has the most calories?
7. Which food has the closest to 100 calories?
8. How many calories are there in 40 pieces of French fries?

9. Alicia went golfing with 12 tees and 6 golf balls. She lost 4 tees and 3 balls. What did she have left?



10. Maria had 4 quarters, 5 dimes, and 2 nickels. She put 4 quarters and 4 dimes into her piggybank. What coins does Maria have left?



11. Jack climbed a hill that was 3 m 79 cm. Then he climbed a 4 m 22 cm tree that was on the hill. How much higher is Jack now than when he started?



12. Franny sewed a row of 6 buttons on a shirt. Each button was 1.5 cm wide and Franny left a space of 10 cm between the buttons. How long was the row of buttons?

Write the numbers that are missing in each pattern.

13.

20	40	61	83	106	?	?	?	?	236
----	----	----	----	-----	---	---	---	---	-----

14.

392	399	393	400	?	401	?	?	?	403
-----	-----	-----	-----	---	-----	---	---	---	-----

15. Margaret fertilized her plants every week. The first week, she used 4 drops of fertilizer. Each week after that, she used 5 more drops than the week before. How many drops had she fed her plants in all after 8 weeks?

Weeks	1	2	3	4	5	6	7	8
Fertilizer Drops	4	9	14	19	?	?	?	?

In the adult human body, there are 206 bones and 615 muscles. The skull is made up of 29 bones. The backbone is made up of 33 small bones.

a.	33	b.	615	c.	206	d.	29
	<u>-29</u>		<u>-206</u>		<u>+615</u>		<u>+33</u>

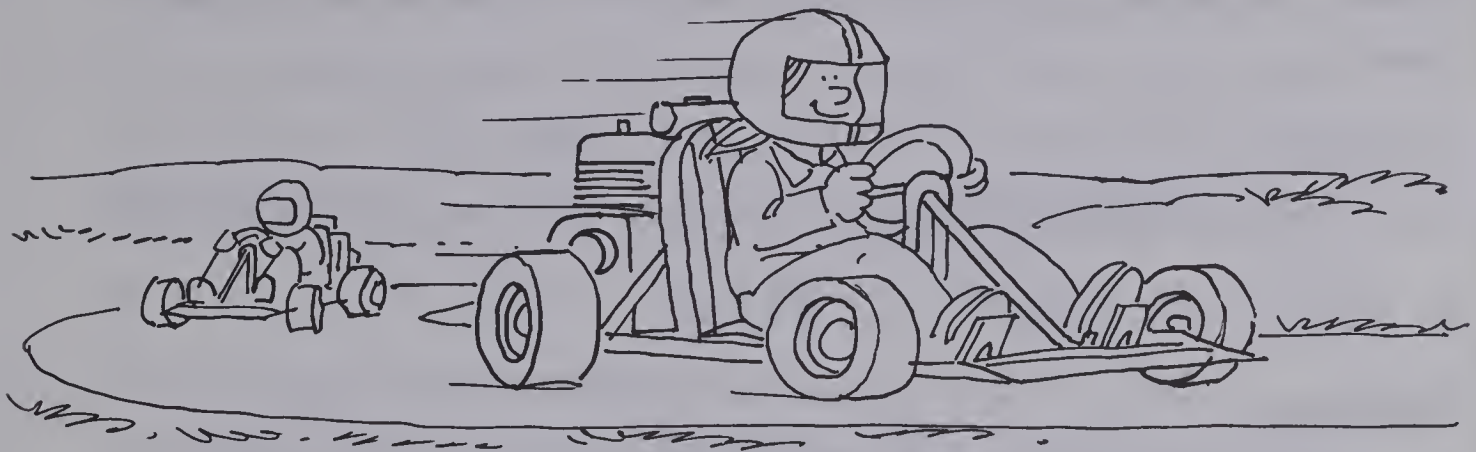
1. How many bones are there in the skull and backbone?
2. How many bones and muscles are there in the adult human body in all?
3. How many more muscles than bones are there in the adult human body?
4. How many more bones are there in the backbone than the skull?

Brad's mass is 61 kg. His dog is 15 kg.
Marianne is 49 kg. Her dog is 19 kg.

a.	61	b.	49	c.	15	d.	61
	<u>-49</u>		<u>+19</u>		<u>+19</u>		<u>+49</u>

5. How much less is Marianne than Brad?
6. How heavy are the two dogs altogether?
7. How heavy are the two children altogether?
8. How heavy are Marianne and her dog altogether?

9. Steve bought a go-kart ticket for \$1.75. He was able to go around the track 3 times for one ticket. Then he bought another go-kart ticket. How much money did Steve spend?



10. An airplane has 36 rows of seats. In each row there are 6 seats. Smoking is allowed in 14 rows. How many rows are for non-smoking?

Each letter stands for a digit. Find the missing digits.

11.	$\begin{array}{r} 3BA \\ +254 \\ \hline A50 \end{array}$	A=? B=?	12.	$\begin{array}{r} 6B7 \\ -129 \\ \hline AAB \end{array}$	A=? B=?	13.	$\begin{array}{r} ABB \\ -3A6 \\ \hline 324 \end{array}$	A=? B=?
-----	--	------------	-----	--	------------	-----	--	------------

14. Mary washed 28 T-shirts and blue jeans. She washed 8 more T-shirts than blue jeans. How many T-shirts did Mary wash?
15. The product of two numbers is between 40 and 50. One number is 4 less than the other number. What are the numbers?
16. Terry made 400 mL barbecue sauce out of ketchup and vinegar. He used 7 times as much ketchup as vinegar. How much ketchup did Terry use?

UNIT 8 Reasonable Answers

When you solve a problem, ask yourself if your answer makes sense.

Problem:

Daryl bought 3 baseballs at \$1.29 each. What was the total cost?

- a. \$0.43 b. \$3.87 c. \$13.87

Solution:

1. If each baseball cost \$1.29, could \$0.43 be the answer?
2. If you rounded \$1.29 to \$1.00 and multiplied by 3, would you come close to \$13.87?
3. Which answer would you choose? Why?

The answer is **b.** because $3 \times \$1.29 = \3.87 .

Read the problems. Choose **a**, **b**, or **c**.

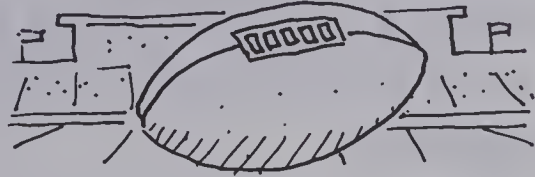
1. An Indian headdress has 35 feathers in it. How many feathers are in 3 headdresses?
a. 38 b. 70 c. 105
2. A bookshelf has 6 shelves. Each shelf is 45 cm high. How tall is the bookshelf?
a. 270 cm b. 135 cm c. 51 cm
3. There are 52 cards in one pile. Each pile has the same number of cards of 4 different colours. How many cards are there for each of the 4 colours?
a. 52 b. 13 c. 208

4. Mrs. Bailey wrote one cheque for \$25.43 and another for \$48.09. How much money did she write cheques for in all?

- a. \$73.52 b. \$22.66 c. \$36.76

5. At the football game, 2195 fans sat under cover and 3584 fans sat out in the open. How many fans were at the game altogether?

- a. 1389 b. 5779 c. 3195



6. The forester planted 6486 fir seedlings and 4127 birch seedlings. How many more birch seedlings did he plant?

- a. 10 613 b. 6500 c. 2359

7. Carl bought a sweatsuit for \$23.75.

He gave the cashier \$30.00.

What should he get for change?

- a. \$11.37 b. \$17.50 c. \$6.25

8. Holly practises piano for 30 minutes every day.

How long does she practise in 7 days?

- a. 60 minutes b. 210 minutes c. 37 minutes

9. A stop sign has 8 corners. If you have 72 corners, how many stop signs do you have?

- a. 80 b. 9 c. 576



10. When a tree trunk is cut across, you can see 185 rings in the wood. Each ring stands for 1 year that the tree has lived. How old is the tree?

- a. 185 b. 85 c. 1

Sometimes you do not need an exact answer to a problem.
An answer that is close is all that is necessary.
We call this estimation.

Problem:

Heather's favourite record takes 25 minutes to play. There are 8 songs on the record. About how many minutes does each song take?

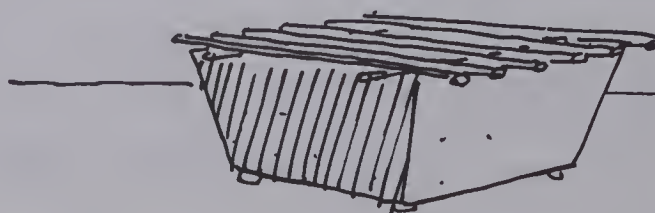
Solution:

Estimate by finding a number to multiply by 8 that gives you a product close to 25. Try doing this in your head.

$$8 \times 3 = 24 \quad \text{Each song takes about 3 minutes.}$$

Estimate a reasonable answer.

1. Danny's foot is about 20 cm long. He measured from his bed to his dresser and found it was 9 footsteps. About how many centimetres was it from Danny's bed to his dresser?
2. Jerry's hand span is about 17 cm wide. She measured her desk top and found it was 6 hand spans wide. About how many centimetres wide is Jerry's desk top?
3. About how much would you save if you bought a hibachi on sale?



4. The Grade 4's are going on a field trip. There will be 29 students from one class, 33 from another, and 31 from another. About how many students will be going on the field trip?
5. Jean needs to make 21 posters for the fair. Each poster takes 5 minutes to make. She estimated that it would take 150 minutes to make all of the posters. Show how Jean estimated the time and prove that she was right or wrong.
6. Pauline is trying to estimate the numbers of buttons in 4 boxes. There are 156 buttons altogether and the same number in each box. About how many buttons are there in each box?
7. Rita has 82 jellybeans to share among 8 friends and herself. About how many jellybeans does each person get?
8. Jeremy wants to buy 6 batteries at 73¢ each. He estimates that the batteries will cost \$4.20. Is his estimate reasonable?
9. Rich is estimating the number of bricks in a wall. There are 8 rows with 28.5 bricks in each row. About how many bricks are there in the wall?
10. Light bulbs cost 78¢ each. Larry has \$6.50. Can he buy 8 light bulbs?
11. Jason always estimates answers before using a calculator. He estimates that 53×9 will be less than 600. Show how Jason estimated.
12. Gwen wants to buy oil for her car. She estimated and decided a single can is a better buy. Did Gwen make a good estimate? Why?



\$1.85



3 for \$5.00

UNIT 9 Organized Lists

Problem:

I am a number between 40 and 70.

I have a remainder of 3 when divided by 6.

I have a remainder of 7 when divided by 8.

I have no remainder when divided by 9.

Who am I?

Solution:

Divide all the numbers between 40 and 70 by 6, 8, and 9.

Organize the results in lists.

<i>Divisors</i>	<i>Remainders</i>	<i>Dividends</i>
6	3	45, 51, 57, 63 , 69
8	7	47, 55, 63
9	none	45, 54, 63

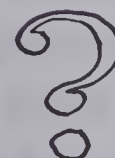
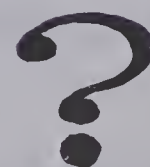
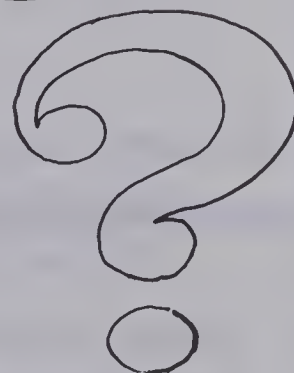
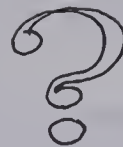
63 appears in each list and so is the correct answer.

Make lists to help you solve each problem.

1. I am a number between 20 and 35.
I have a remainder of 1 when divided by 2, 3, or 5.
Who am I?
2. I am a number between 45 and 55.
I have a remainder of 2 when divided by 3 or 5.
Who am I?
3. I am a number between 60 and 80.
I have a remainder of 3 when divided by 4.
I have a remainder of 1 when divided by 7.
Who am I?



4. I am a number between 90 and 100.
I have a remainder of 4 when divided by 5.
I have no remainder when divided by 3.
Who am I?
5. I am a number between 250 and 280.
I have a remainder of 2 when divided by 4.
I have no remainder when divided by 6.
I have no remainder when divided by 10.
Who am I?
6. I am a number between 420 and 460.
I have a remainder of 1 when divided by 8.
I have a remainder of 8 when divided by 9.
I have a remainder of 9 when divided by 10.
Who am I?
7. I am a number between 650 and 700.
I have a remainder of 2 when divided by 3.
I have no remainder when divided by 5.
I have no remainder when divided by 10.
Who am I?
8. I am a number between 230 and 245.
I have no remainder when divided by 9.
I have a remainder of 3 when divided by 7.
I have no remainder when divided by 2.
Who am I?
9. I am a number between 985 and 1000.
I have a remainder of 4 when divided by 5.
I have a remainder of 3 when divided by 4.
I have no remainder when divided by 9.
Who am I?



Problem:

Franz has a pair of blue corduroy pants and a pair of brown corduroy pants. He has a white sweater, a green one, and a blue one. How many different outfits can Franz wear?

Solution:

Make a list.

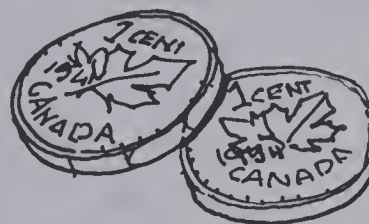
<i>Pant Colour</i>		<i>Sweater Colour</i>
Blue	+	White
Blue	+	Green
Blue	+	Blue
Brown	+	White
Brown	+	Green
Brown	+	Blue

From the list, you can see that Franz can wear 6 different outfits.

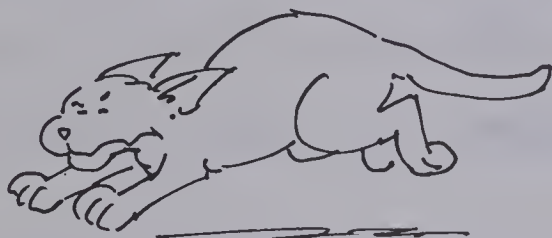
1. Shelby wanted cereal with fruit for breakfast. He could have bran flakes or corn flakes with either peaches, blueberries, strawberries, or oranges. How many different breakfasts can Shelby have?
2. Joe has a belt buckle decorated with a motorcycle and another buckle with a sailboat on it. He also has a tan, a navy, and a black leather belt. In how many different ways could he wear his belt with a buckle?
3. Sally, Barbara, Mac, and Chris could have summer jobs of raking leaves, washing cars, painting fences, or mowing lawns. How many different ways can the jobs be assigned? (One job for each person.)

4. Mrs. Bosse has 3 blouses: red, white, and pink. She also has 3 skirts: white, tan, and navy. How many different outfits can Mrs. Bosse wear?

5. Lucia has 2 pennies. She tosses them one time. How many different ways can they land?



6. The sum of the ages of Ian's cat and dog is 15. What are all of the possible ages the cat and dog can be?



7. Mary has 36 square ceramic tiles. She wants to arrange them in a rectangle. What are all the possible lengths and widths the rectangle can have?
8. The sum of ages of Carla and Brigitte is 18. What are all of the possible ages each girl can be?
9. Ms. Bakel had 5 errands to do in one day. She had to buy groceries, go to the bank, pick up the drycleaning, go to the post office, and get her car washed. In how many different orders could she do her errands?

UNIT 10 Measurement Problems

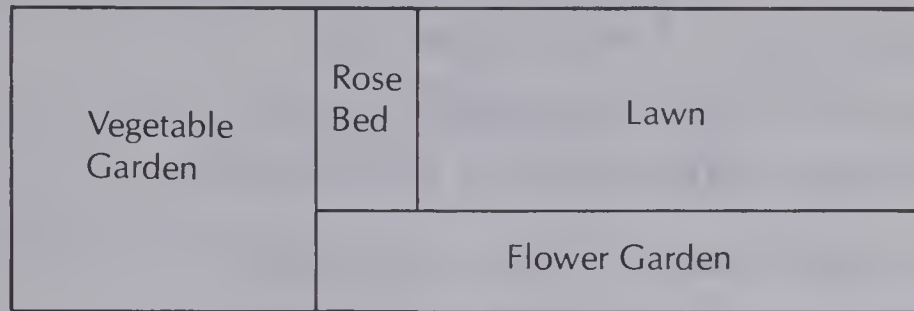
The driving distance between cities is measured in kilometres.



Use the map to answer these questions.

1. How far is it from Nipigon to Sault Ste. Marie?
2. How far is it from Toronto to Ottawa?
3. How far is it from Pembroke to Sault Ste. Marie?
4. How far is it from Thunder Bay to Sudbury?
5. How far is it from Toronto to Thunder Bay?
6. How much further is it from Sudbury to Pembroke than from Sudbury to Orillia?
7. How much further is it from Sault Ste. Marie to Ottawa than Sault Ste. Marie to Toronto?
8. What cities do you drive through when you take the shortest route from Orillia to Montreal?

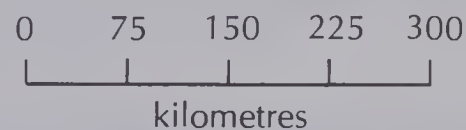
One centimetre on this map represents 1 m in Estelle's garden.



1. How wide is Estelle's garden?
2. How long is Estelle's garden?
3. What is the width and length of the rose bed?
4. What is the width and length of the lawn?
5. How much longer is the flower garden than the vegetable garden?

This is a map of part of the British Columbia coastline and Vancouver Island.

The scale is 1 cm:75 km.



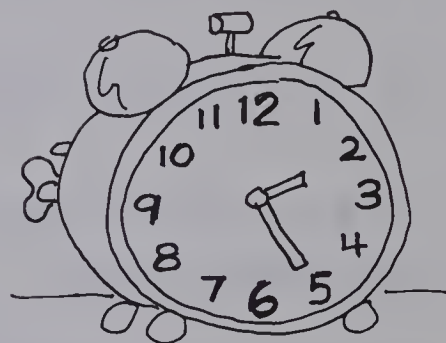
Suppose you had a small plane and could travel in a straight line.

6. About how far is it from Nanaimo to Vancouver?
7. About how far is it from Victoria to Port Hardy?
8. About how far is it from Courtenay to Kamloops?
9. About how much farther is it from Vancouver to Quesnel than from Vancouver to Kamloops?



Write the time.

1. Toronto time is 3 hours later than Vancouver time. If it is 8:00 A.M. in Vancouver, what time is it in Toronto?
2. Winnipeg time is 2 hours earlier than Halifax time. If the clock at the right is for a morning in Halifax, what time is it in Winnipeg?
3. Edmonton time is $3\frac{1}{2}$ hours earlier than St. John's time. If it is 11:30 A.M. in Edmonton, what time is it in St. John's?
4. Montreal time is 2 hours later than Calgary time. If the clock at the right is for an afternoon in Montreal, what time is it in Calgary?

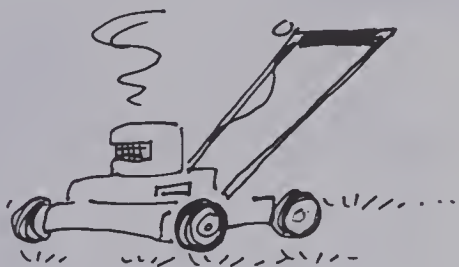


Janice kept a record of the time she started and finished activities one day. How many hours and minutes did she spend on each?

	Activity	Start Time	Finish Time
5.	attending school	8:30 A.M.	3:15 P.M.
6.	jogging	4:10 P.M.	4:45 P.M.
7.	watching TV	6:45 P.M.	8:20 P.M.
8.	sleeping	9:00 P.M.	6:15 A.M.

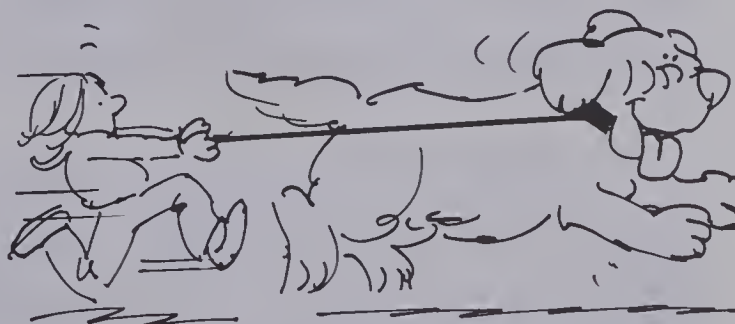
9. Marj went outside to play at 3:30 P.M. She came back 55 minutes later. What time did she come back?
10. The bus ride from Tom's house to downtown takes 37 minutes. If Tom catches the bus at 10:50 A.M., what time will he get downtown?
11. Sandy's favourite TV program starts at 19:20. The program goes for 40 minutes. What time does the program end?

12. Paul started to mow the lawn at 2:20 P.M. He finished at 4:15 P.M. How long did it take to mow the lawn?



13. Jake was $\frac{1}{4}$ hour late for school. If school starts at 08:50, what time did Jake get to school?
14. Brad missed the 11:30 bus and must wait 45 minutes for the next bus. At what time will it come?
15. Fred started cleaning the house at 3:42 P.M. and finished at 6:19 P.M. How long did it take Fred to clean the house?

16. Mandy started walking the dog at 7:12 A.M. She returned at 7:57 A.M. How long a walk did the dog have?



17. It takes 1 h 20 min to bake a carrot cake. If Hannah puts the cake in the oven at 4:50 P.M., at what time will the cake be done?

UNIT 11 Multi-Step Problems

Sometimes it takes more than one step to solve a problem.

Problem:

At the downtown station, there were 1895 people on the train. One stop later, 268 people got off and 501 people got on the train. How many people are now on the train?

Solution:

$$\begin{array}{r} \text{Step 1} \\ 1895 \\ - 268 \\ \hline 1627 \end{array}$$

$$\begin{array}{r} \text{Step 2} \\ 1627 \\ + 501 \\ \hline 2128 \end{array}$$

There are 2128 people on the train now.

Solve.

1. Chris is saving to buy a model airplane kit that costs \$7.14. He has \$2.06 in his pocket and \$4.36 in his piggybank. How much more money does he need?
2. Ken's mass was 107 kg last winter. He went on a diet and lost 32 kg. Then he gained 17 kg back. How heavy is Ken now?
3. A jet can hold 392 people. One hundred ninety-seven people already have tickets and 88 more people have reservations. How many seats are left on the jet?



4. The ferry loaded 96 cars. There were 4 passengers in each car and 183 passengers walked on without cars. How many passengers were on the ferry altogether?

5. Jill is reading a mystery book. She read 205 pages last night and 345 pages this morning. She still has 478 pages to read. How many pages is the mystery book in all?

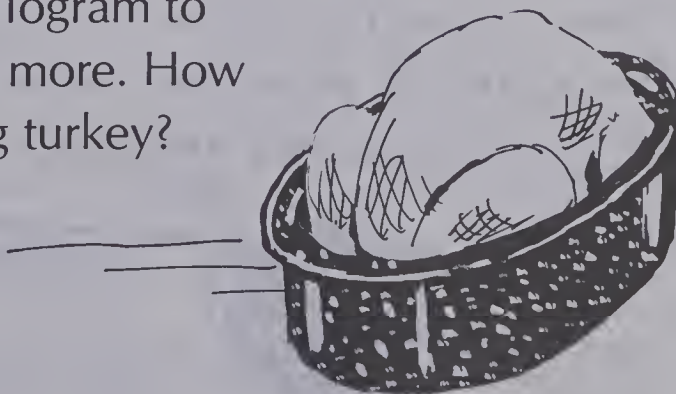
6. A downtown office building has 12 floors. The skyscraper next to it is 4 times as high plus 2 more floors. How many floors high is the skyscraper?



7. Cheryl wants to buy a present for \$9.69 and a card for \$1.25. She has \$10.00. How much money does she need?

8. Lisa, Joey, and Craig divided 126 pieces of licorice evenly among themselves. Then Craig had to share his pieces with his little brother. How many pieces of licorice did Craig have for himself?

9. It takes 40 minutes for each kilogram to roast a turkey plus 15 minutes more. How long will it take to roast a 6 kg turkey?



Problem:

Jenny babysits for \$0.75 per hour before 7 P.M. and \$1.00 per hour after 7 P.M. How much does she earn if she babysits from 5 P.M. to midnight?

Solution:

Step 1: At \$0.75 per hour, how much would Jenny earn from 5 P.M. to 7 P.M.?

$$2 \times \$0.75 = \$1.50$$

Step 2: At \$1.00 per hour, how much would Jenny earn from 7 P.M. to midnight?

$$5 \times \$1.00 = \$5.00$$

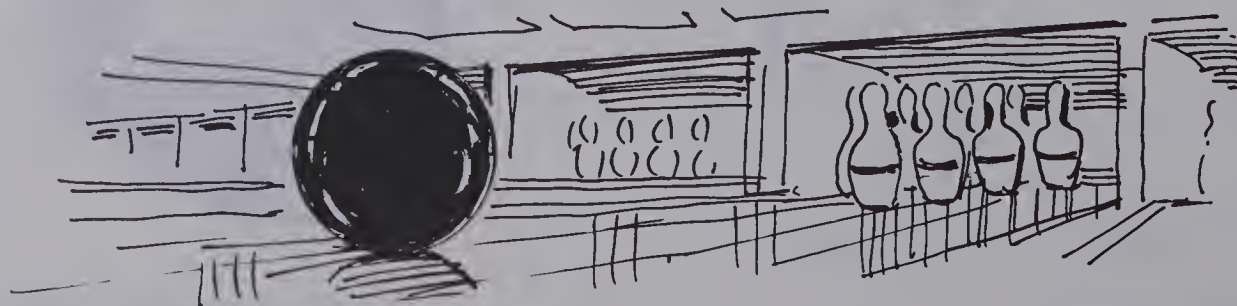
Step 3: Find the total earnings.

$$\$1.50 + \$5.00 = \$6.50$$

Jenny will earn \$6.50 for babysitting.

Solve.

1. Mom, Dad, and the twins went to a movie. For each adult, it costs \$4.75 and for each child, it costs \$2.75. They all had a box of popcorn for \$0.75. How much did the family spend altogether?
2. Andrea, Jeff, and Sylvia went bowling. Andrea scored 84. Sylvia scored 63 more than Andrea. Jeff scored twice as much as Andrea. How much more did Jeff score than Sylvia?



3. Pamela needs to buy 10 m of red velvet ribbon that costs \$2.05/m. She also needs 10 m of green satin ribbon that costs \$1.85/m. How much money will Pamela spend on ribbon?
4. An egg carton holds 12 eggs. The supermarket has 25 cartons. Six of the cartons held small eggs, 11 cartons held medium eggs, and the rest of the cartons held large eggs. How many large eggs were there?
5. How much will 3 hamburgers, 1 hot dog, 4 French fries, 2 colas, and 2 milks cost?




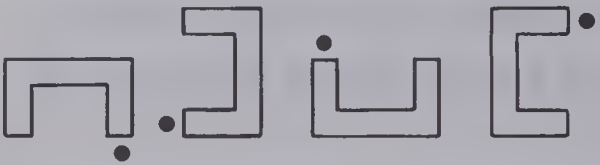


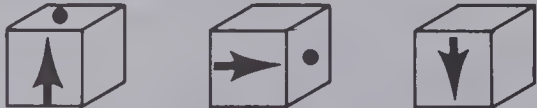
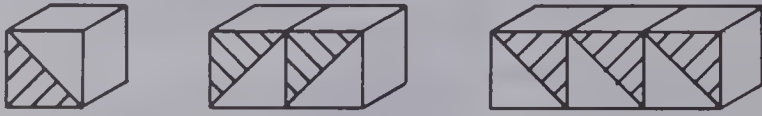
Menu	
Hamburgers	\$1.25
Hot Dogs	\$0.85
French Fries	\$0.65
Cola	\$0.50
Milk	\$0.45

6. Reg has to mail 4 letters and 6 postcards. Each letter needs a 30¢ stamp and each postcard needs a 20¢ stamp. How much money will Reg spend on stamps?
7. Jennifer and Bethany each paid \$2.40 to ride the water slide for 1 hour. Jennifer had 8 rides and Bethany had 6 rides. How much more did it cost Bethany for a single ride?
8. Paul flew from Calgary to Toronto. His plane left at 13:15 Calgary time and arrived at 18:40 Toronto time. If Toronto time is 2 hours ahead of Calgary time, how many hours and minutes did the flight last?



UNIT 12 Geometry Patterns

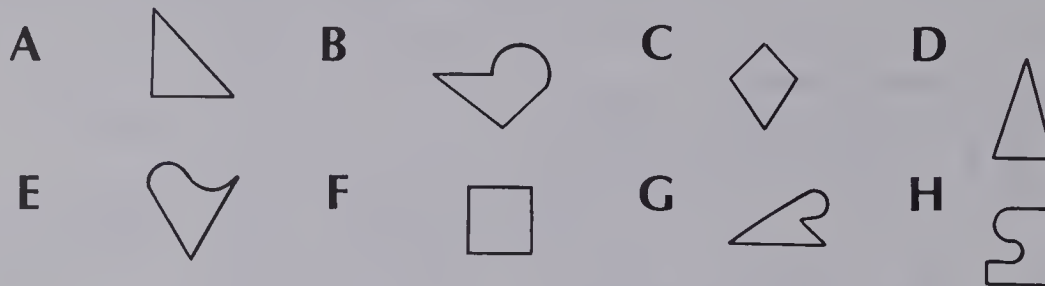
Draw the two figures that come next.

1.		?	?
2.		?	?
3.		?	?
4.		?	?
5.		?	?
6.		?	?
7.		?	?
8.		?	?

9.		?	?
10.		?	?
11.		?	?
12.		?	?
13.		?	?
14.		?	?
15.		?	?
16.		?	?

Problem:

How many figures below have not all straight sides and 4 corners?



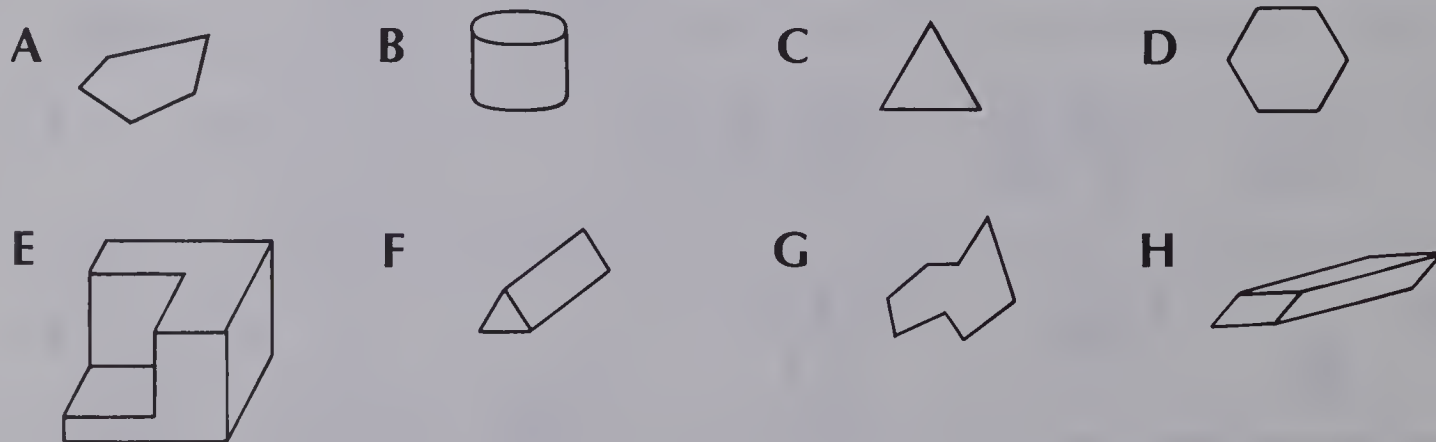
Solution:

A diagram helps you sort the figures in an orderly way.

	Only Straight Sides	Not All, Straight Sides
3 Corners	A, D	E, G
4 Corners	C, F	B, H

Two figures have not all straight sides and 4 corners.

Use a diagram to help you answer the questions.



	Symmetrical	Not Symmetrical
Plane Figures	?	?
Solids	?	?

- Copy and complete the diagram.

- How many figures are solid and symmetrical?
- How many plane figures are not symmetrical?

- a. fire engine b. apple c. grass d. a rose
 e. bread f. peanut butter g. watermelon h. potato
 i. chocolate j. strawberry jam k. cucumber l. stop sign

4. Copy and complete the diagram.

	Things you can eat	Things you cannot eat
Red	?	?
Not red	?	?

5. How many items are red and cannot be eaten?
 6. Which items are not red and can be eaten?
 7. How many more items which are not red can be eaten than not eaten?
 8. Which items are red and can be eaten?

Use the diagram to answer the questions.

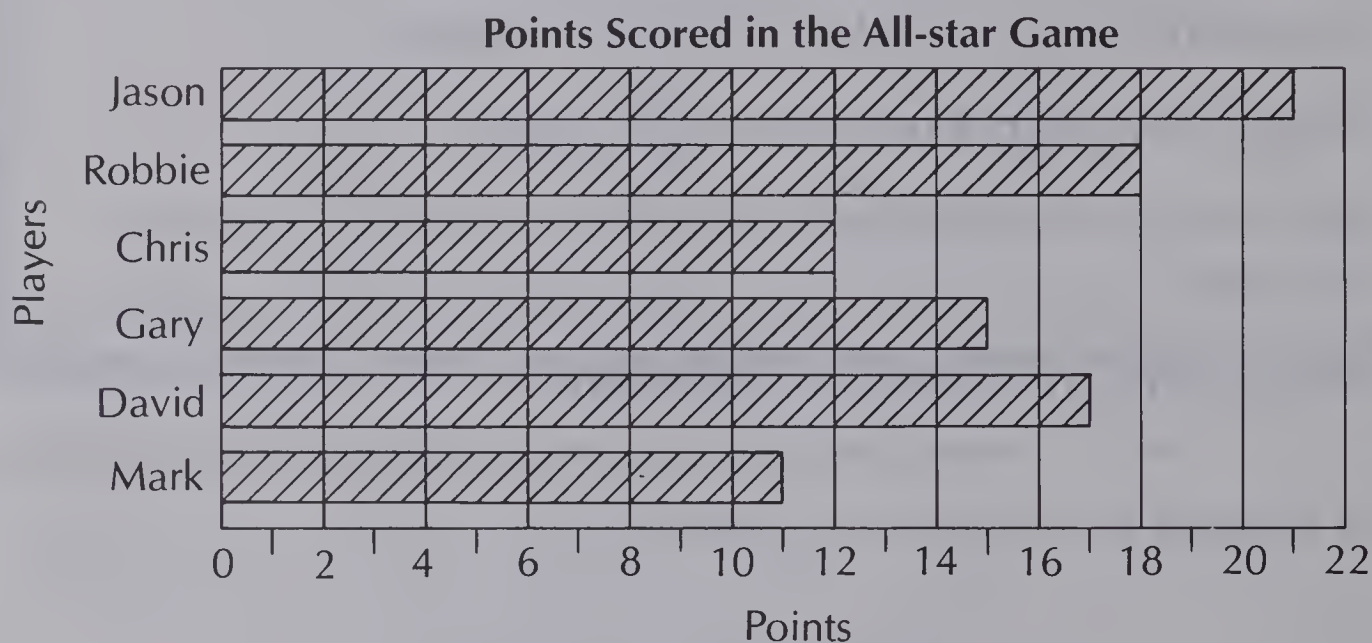
	Brown hair	Red hair
Tall	Lisa, Rob, Dave, Jeff	Dixie Sally
Short	Graham, Jack Mark	Lindsay

9. How many short people are there with brown hair?
 10. How many tall people are there with red hair?
 11. Describe the group which has the most people?
 12. Describe the group which has the fewest people?

UNIT 13 Using Graphs

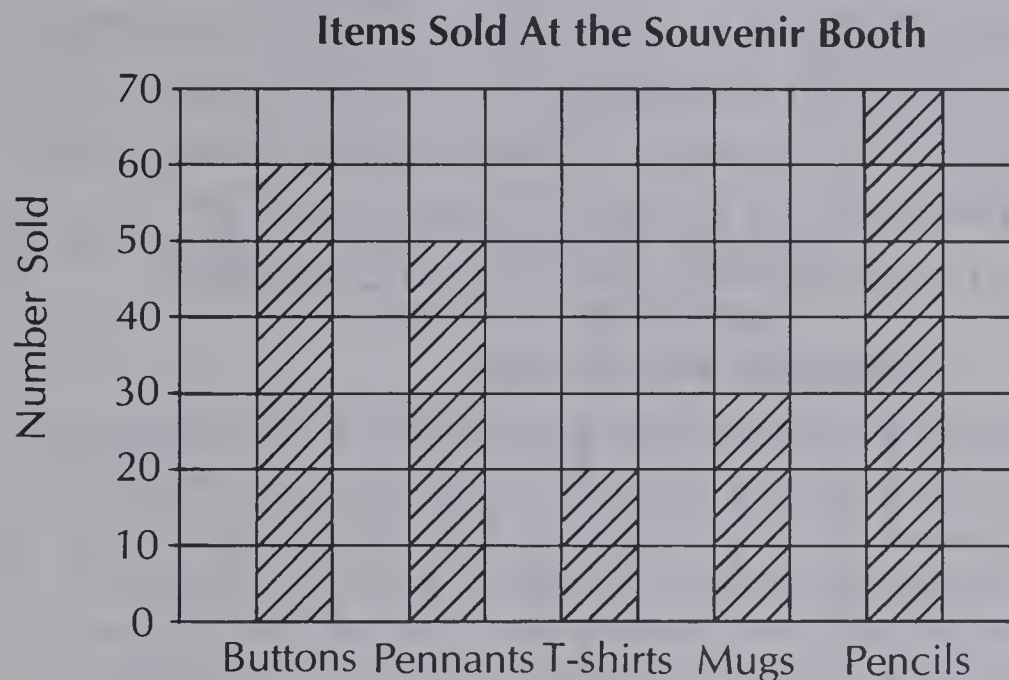
Bar graphs make it easy to find the facts you need to solve a problem.

Jason, David, Robbie, Gary, Chris, and Mark played basketball for the All-star game last night. They got 2 points every time they scored a field goal and 1 point for each free throw. Their points for the game are shown below.



1. Who was the highest scorer in the All-star game?
2. How many points did Chris score?
3. How many more points did Robbie score than Gary?
4. Who scored 11 points?
5. If David scored 7 field goals, how many free throws did he get?
6. Chris didn't get any free throws. How many field goals did he score?
7. Robbie scored the same number of field goals as free throws. How many was that?

The following items were sold at the souvenir booth at the All-star basketball game. Find out how much money was collected.

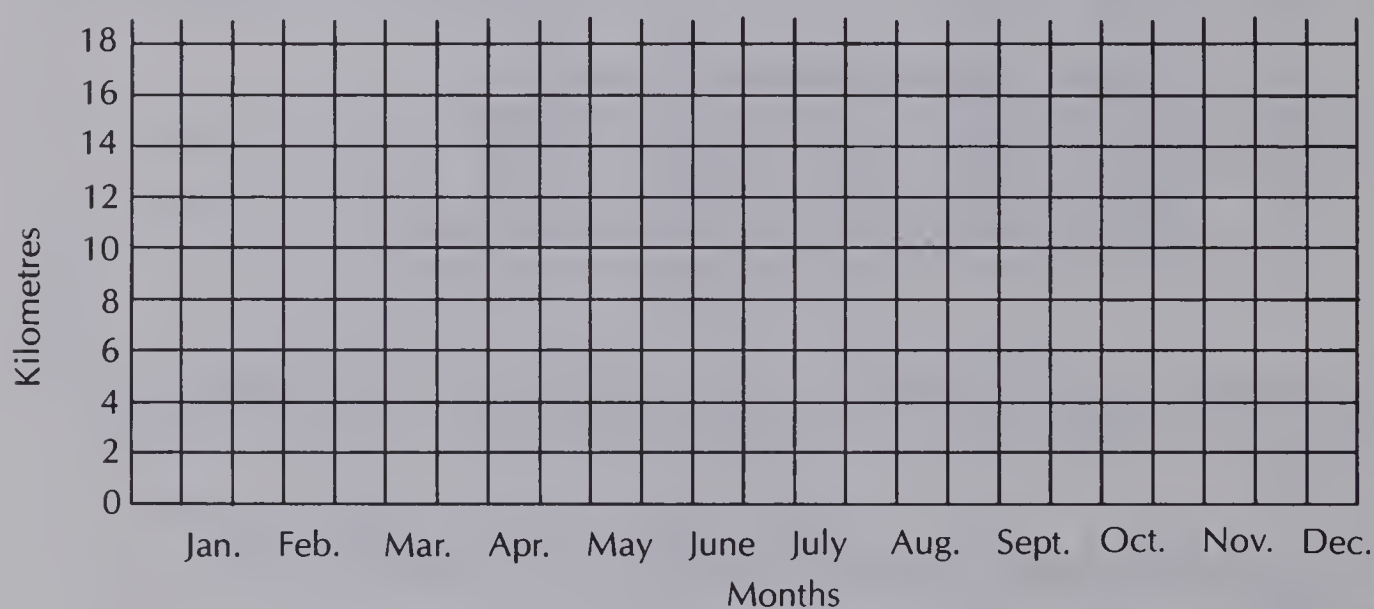


1. All-star buttons sold for \$0.95. How much money was collected for buttons?
2. Pencils were \$0.15 each. How much money was collected for pencils?
3. Pennants sold for \$1.75. How much money was collected for pennants?
4. Mugs were \$2.95 each. How much money was collected for mugs?
5. All-star T-shirts sold for \$8.25 each. How much money was collected for the T-shirts?
6. How much more money was collected for the mugs than for the buttons?
7. Which All-star souvenir brought in the most money?
8. How much money was collected altogether at the souvenir booth?

1. Make a bar graph to help you answer the following questions.

Tom kept a record of the number of kilometres he ran outdoors every month for a year. He ran 5 km in January, 6 km in February, 4 km in March, and 12 km in April. In May, he ran 18 km; in June, 27 km; in July, 30 km; and in August, 24 km. He ran 19 km in September, 8 km in October, 5 km in November, and 3 km in December.

Kilometres Run By Tom



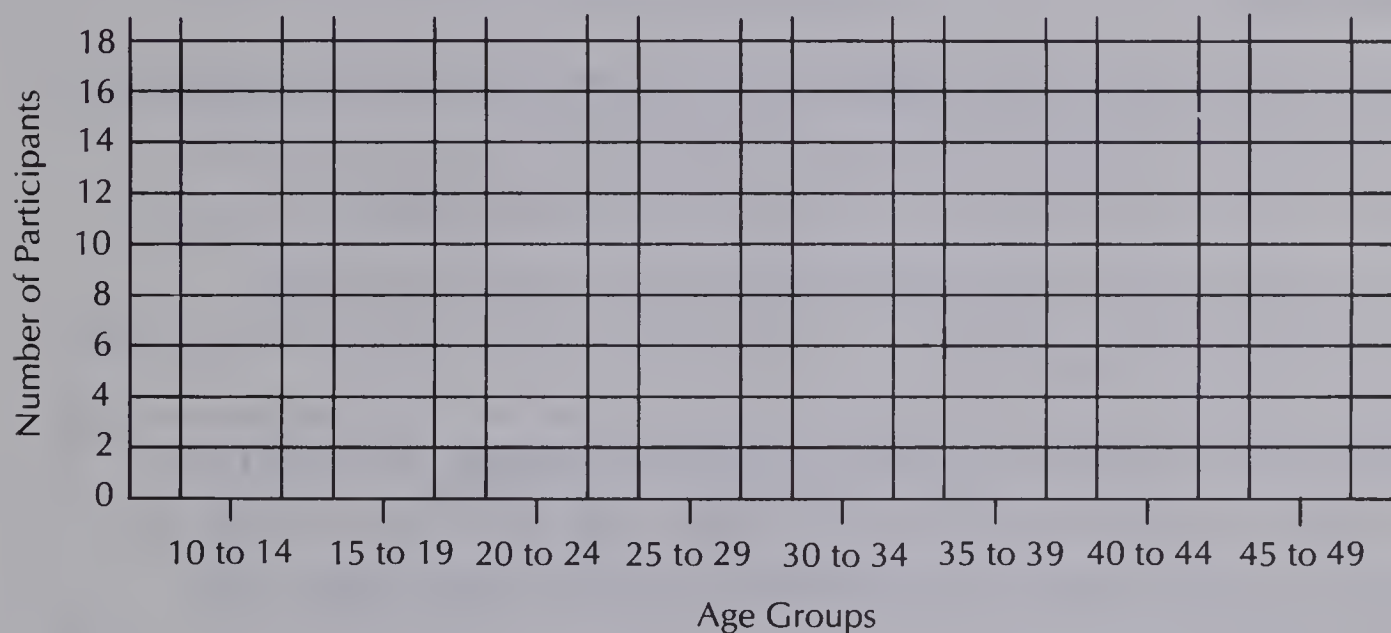
2. In which month did Tom run 27 km?
3. How much farther did Tom run in August than April?
4. How far did Tom run in February, March, and April?
5. How far did Tom run in June, July, and August?
6. In which two months did Tom run exactly the same distance?
7. For which two months in a row did Tom run 16 km in all?
8. What was the average number of kilometres Tom ran in January, February, and March?
9. How many kilometres did Tom run in the year?

Eleanor registered participants in an all female marathon. She registered 4 runners aged from 10 to 14, 16 runners from 15 to 19, 28 runners from 20 to 24, and 23 runners from 25 to 29. There were 11 runners aged from 30 to 34, 12 from 35 to 39, 6 from 40 to 44, and 3 from 45 to 49.



1. Use grid paper to copy complete bar graph.

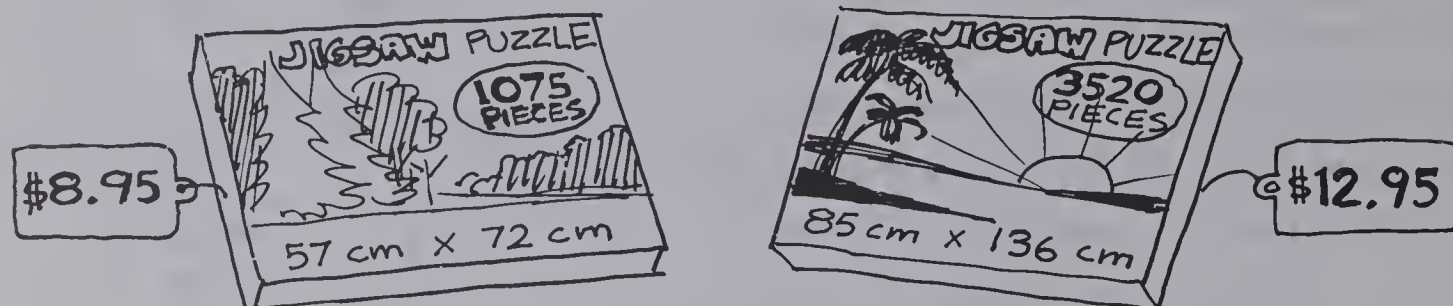
Marathon Participants



2. How many marathon participants were in the 35 to 39 age group?
3. How many runners were in their twenties?
4. How many runners were in their thirties?
5. How many runners were in their forties?
6. Which age group has four times as many participants as the 10 to 14 age group?
7. How many participants were under 35 years old?
8. How many marathon participants were there in all?

UNIT 14 Review Problems

Use what you have learned to solve these problems.



1. How much does the puzzle with one thousand seventy-five pieces cost?
2. What is the area of the puzzle with 3520 pieces when finished?
3. Name how many pieces the sunset puzzle has in words.
4. How much larger is the area of the sunset puzzle than the area of the forest puzzle?



Charles Atlas was born in 1894. He lifted weights and built his body up so that he had a 135 cm chest and each arm was 43 cm around. In 1922, he was named the World's Perfect Man. He died in 1972.

a.	1922	b.	1972	c.	135	d.	1972
	<u>-1894</u>		<u>-1894</u>		<u>- 43</u>		<u>-1922</u>

5. How old was Charles Atlas when he was named the World's Perfect Man?
6. How much bigger was the distance around his chest than around one of his arms?
7. How old was Charles Atlas when he died?
8. How many years did he live after he was named the World's Perfect Man?

9. Mrs. Mori's mass was 110 kg. She went on a special diet. If she could lose 1 kg the first week, 2 kg the second week, 3 kg the third week, and so on, how heavy would she be after 8 weeks?
10. Farrah is 135 cm tall. When she stands on a 65 cm stool, the top of her head is up to the highest library book shelf. How high is this book shelf?
11. Britt wanted to collect 100 bottles. She filled 5 cases with 6 bottles each that she found in a vacant lot. How many bottles has Britt already collected?
12. Ricky read some books over the summer holidays. Eve read 3 times as many. Altogether they read 36 books. How many books did Ricky read?

Draw the two figures that come next.

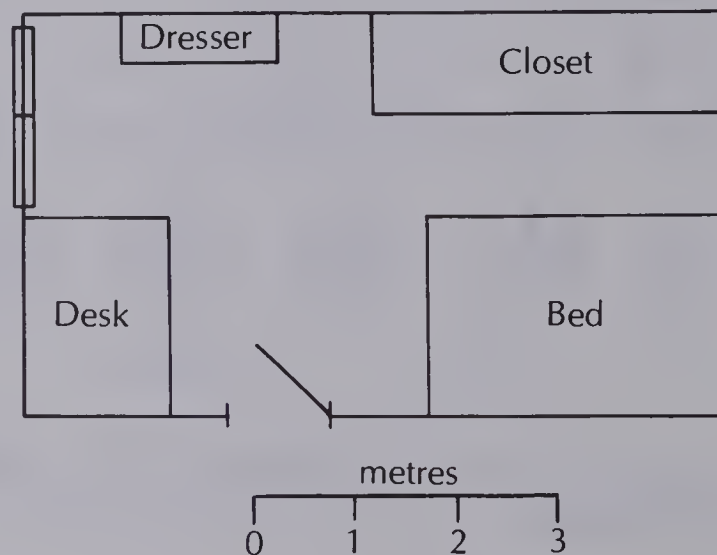
13.		?	?
14.		?	?

15. Joe bought a record for \$4.98. He gave the cashier \$10.00. What was his change?

a. \$14.98 b. \$6.02 c. \$5.02

16. Kanwal was trying to estimate the number of hearts in a design. There were 7 rows with 18 hearts in each row. About how many hearts were there in the design?
17. Bars of soap cost 59¢ each. They are on sale, 3 bars for \$1.50. Freda wants to buy 3 bars of soap. She estimated she will get a better buy if she buys 3 bars for \$1.50. Did Freda make a good estimate?
18. I am a number between 250 and 270.
I have a remainder of 1 when divided by 3 or 4.
I have no remainder when divided by 5.
Who am I?
-

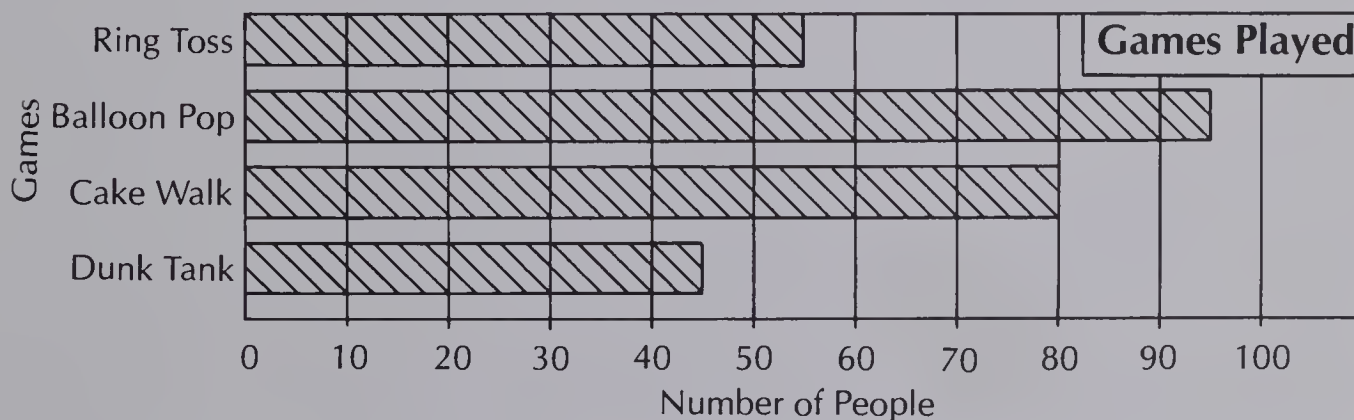
This is a map of Alicia's bedroom. One centimetre on this map represents 1 m in Alicia's bedroom.



19. How much longer is Alicia's closet than her bed?
20. How far is it from the end of Alicia's bed to the desk?

21. In Ronnie's coin collection, he has 26 coins dated before 1900, 54 coins from 1900 to 1920, and 133 coins dated after 1920. How many coins in all does he have dated before 1920?
22. Find two numbers whose sum is 225 and whose difference is 53.
23. Carmen put a 178 mL can of frozen orange juice into a jug. Then he put 3 cans of water into the jug. How many millilitres of juice does the jug have in it now?
24. Karen went to the dentist to have two cavities filled and to have her teeth painted. The fillings cost \$15.25 each and the paint work cost \$13.85. How much does Karen owe the dentist?

Mr. Cameron's class set up a game's room one lunch hour to raise some money. Find out how much money they made.



25. The Cake Walk cost 35¢. How much money was made on it?
26. The Dunk Tank cost 50¢. How much money was made on it?
27. The Ring Toss cost 25¢. How much money was made on it?
28. The Balloon pop cost 15¢. How much money was made on it?
29. How much money was made altogether?

CHAPTER 14

M2 39542344 CURR



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DATE DUE SLIP

DUE NOV 12 '93	RETURN MAR 16 '96
1993 NOV 13	RETURN
DEC 04 '93	RETURN FEB 26 '97
1993 NOV 22	RETURN SEP 05 '97
EDUC NOV 05 '94	
RETURN OCT 26 '94	
DUE EDUC NOV 15 '94	
RETURN NOV 15 '94	RIV
RETURN MAR 10 '95	N
DUE EDUC NOV 23 '95	
RETURN DEC 01 '95	
DUE EDUC JAN 26 '96	
RETURN JAN 20 '96	
DUE MAR 23 '96	o

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